

## OPTICALLY INTERCONNECTING MULTIPLE PROCESSORS

### Abstract of the Disclosure

A multiprocessor system may include a plurality of processors that are optically coupled to one another. An  
5 optical transceiver may send messages to other processors using a preassigned wavelength. Each message from one of the other processors in the system may be received by a given processor. The messages from any given processor may include a code that identifies the sending and receiving  
10 processors. When a given processor is receiving a signal from another processor, it may provide an indication to the other processors in the system that it is occupied and will not accept any transmissions.